

1933

40

Organization _____ Bldg./Room _____

UNITED STATES PATENT AND TRADEMARK OFFICE

P.O. Box 1450

Alexandria, VA. 22313-1450

If Undeliverable Return In Ten Days

Official Business

Penalty For Private Use, \$300

UNITED STATES POSTAGE

U.S. OFFICIAL MAIL

**PENALTY FOR
PRIVATE USE \$300**

REGISTERED MAIL **REGISTERED MAIL** **REGISTERED MAIL**
POSTAGE WILL BE PAID BY ADDRESSEE **POSTAGE WILL BE PAID BY ADDRESSEE** **POSTAGE WILL BE PAID BY ADDRESSEE**

WILLIAMSON PITNEY BOWES



02 1A
0000420479
\$ 00.60⁰
AUG10 2005
MAILED FROM ZIP CODE 22314

AN EQUAL OPPORTUNITY EMPLOYER

RECEIVED
AUG 19 2000

RECEIVED
AUG 19 2005

USPTO MAIL CENTER

***** 1201300 1604 09 04/15/05
FORWARD TIME EXP RTN TO SEND
:GEORGE RESEARCH & DEVELOPMENT
:RESEARCH CTR
:SCHENECTADY NY 12309-1027

12301+000A-0A 8092/1430



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,197	07/30/2003	Jeffrey Jon Shaw	RD-27,719-5	2166

7590 08/10/2005

General Electric Company
CRD Patent Docket Rm 4A59
Bldg. K-1
P.O. Box 8
Schenectady, NY 12301

EXAMINER

SUNG, CHRISTINE

ART UNIT PAPER NUMBER

2878

DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED
OICE/AP
AUG 19 2005

BEST AVAILABLE COPY

Office Action Summary

Application No.

10/631,197

Applicant(s)

SHAW ET AL.

Examiner

Christine Sung

Art Unit

2878

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 July 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>0703</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Homme (US Patent 6,278,118 B1).

Regarding claim 1, Homme discloses an X-ray detector assembly (figure 2), comprising:
a substrate (element 1);
a detector matrix array (element 6) disposed on said substrate (Figure 2);
a scintillator material (element 7) disposed on said detector matrix array (Figure 2);
and an encapsulating coating (elements 8 and 10) disposed on said scintillator material (see figure 2), wherein said encapsulating coating comprises a combination of a mono-chloro-poly-para-xylylene (element 10) or Parylene C layer and a poly-para-xylylene layer or Parylene (element 10).

Regarding claims 2 and 4, Homme discloses that the mono-chloro-poly-para-xylylene layer has a thickness of 10 microns (column 5, line 55) and said poly-para-xylylene layer has a thickness ranging from about 0.2 microns (column 4, lines 50-51) to about 10 microns (column 5, line 64).

Art Unit: 2878

Regarding claim 3, Homme discloses that the poly-para-xylylene layer (element 8) is disposed over said scintillator material (element 7) and said mono-chloro-poly-para-xylylene layer (element 10) is disposed over said poly-para-xylylene layer (see figure 2).

Regarding claim 5, Homme discloses an X-ray detector assembly (see figure 2), comprising:

- a substrate (element 1);
- a detector matrix array (element 6) disposed on said substrate (Figure 2);
- a scintillator material (element 7) disposed on said detector matrix array (Figure 2);
- and an encapsulating coating (elements 8 and 10) disposed on said scintillator material (see figure 2), wherein said encapsulating coating (elements 8 and 10) comprises a poly-para-xylylene layer (element 8) disposed over said scintillator material (element 7) and a mono-chloro-poly-para-xylylene layer (element 10) disposed over said poly-para-xylylene layer (see figure 2).

Regarding claim 6, Homme discloses that the mono-chloro-poly-para-xylylene layer has a thickness of 10 microns (column 5, line 55) and said poly-para-xylylene layer has a thickness ranging from about 0.2 microns (column 4, lines 50-51) to about 10 microns (column 5, line 64).

Regarding claim 7, Homme discloses an X-ray detector assembly (Figure 2), comprising:

- a substrate (element 1);
- a detector matrix array (element 6) disposed on said substrate (Figure 2);
- a scintillator material (element 7) disposed on said detector matrix array (Figure 2);
- and an encapsulating coating (elements 8 and 10) disposed on said scintillator material (see figure 2), wherein said encapsulating coating (elements 8 and 10) comprises a poly-para-

Art Unit: 2878

xylylene layer (element 8) about 0.2 microns (column 4, lines 50-51) to about 10 microns (column 5, line 64) disposed over said scintillator material (element 7) and a mono-chloro-poly-para-xylylene layer having a thickness of 10 microns (column 5, line 55) disposed over said poly-para-xylylene layer.

Conclusion

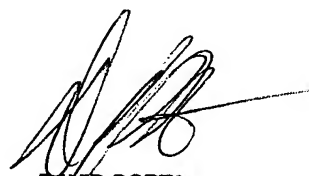
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Sung whose telephone number is 571-272-2448. The examiner can normally be reached on Monday- Friday 7-3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christine Sung
Examiner
Art Unit 2878

CS



DAVID PORTA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

BEST AVAILABLE COPY

Sheet 1 of 1

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. RD-27,719-5	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <u>LIST OF ITEMS</u>		Applicant JEFFREY J. SHAW, ET AL	
		Filing Date	Group

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CS	A1 4,011,454	3/8/77	LUBOWSKI, ET AL			
CS	A2 4,069,355	1/17/78	LUBOWSKI, ET AL			
CS	A3 5,132,539	7/21/92	KWAŚNICK, ET AL			
CS	A4 5,153,438	10/6/92	KINGSLEY, ET AL			
CS	A5 5,171,996	12/15/92	PEREZ-MENDEZ			
CS	A6 5,179,284	1/12/93	KINGSLEY, ET AL			
CS	A7 5,187,369	2/16/93	KINGSLEY, ET AL			
CS	A8 5,227,635	7/13/93	IWANCZYK			
CS	A9 5,336,928	8/9/94	NEUGEBAUER, deceased, ET AL			
CS	A1 5,359,496	10/25/94	KORNRUMPF, ET AL			
CS	0					
CS	A1 5,368,882	11/29/94	TRAN, ET AL			
CS	A1 5,401,668	3/28/95	KWAŚNICK, ET AL			
CS	A1 5,460,980	10/24/95	TRAN, ET AL			
CS	A1 5,654,084	8/5/97	EGERT			
CS	A1 6,146,489	11/14/00	WIRTH			
CS	A1 6,204,506	3/20/01	AKAHORI, ET AL			
CS	A1 6,262,422	7/17/01	HOMME, ET AL			
CS	A1 6,278,118	8/21/01	HOMME, ET AL			
CS	8					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
CS	B1 EP0932053B1	9/1/02	EPO			
CS	B2 EP0903590B1	2/4/02	EPO			
	B3					

EXAMINER

DATE CONSIDERED

8/5/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant